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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	June 9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-6,345,669	Feb 12, 2002	Buyers et al.	
	A2	US-6,318,470	Nov 20, 2001	Chang et al.	
	A3	US-6,241,031	Jun 5, 2001	Beaufort et al.	
	A4	US-6,241,028	Jun 5, 2001	Bijleveld et al.	
	A5	US-6,179,058	Jan 30, 2001	Wittrisch	
	A6	US-6,173,787	Jan 16, 2001	Wittrisch	
	A7	US-5,833,002	Nov 10, 1998	Holcombe	
	A8	US-5,794,703	Aug 18, 1998	Newman et al.	
	A9	US-5,615,747	Apr 1, 1997	Vail, III	
	A10	US-5,547,314	Aug 20, 1996	Ames	
	A11	US-5,375,668	Dec 27, 1994	Hallundbaek	
	A12	US-5,343,950	Sep 6, 1994	Hale et al.	
	A13	US-5,343,951	Sep 6, 1994	Cowan et al.	
	A14	US-5,332,048	Jul 26, 1994	Underwood et al.	
	A15	US-5,209,304	May 11, 1993	Nice	
	A16	US-5,197,553	Mar 30, 1993	Leturno	
	A17	US-5,184,676	Feb 9, 1993	Graham et al.	
	A18	US-5,121,694	Jun 16, 1992	Zollinger	
	A19	US-5,040,619	Aug 20, 1991	Jordan et al.	
	A20	US-5,018,451	May 38, 1991	Hapstack	
	A21	US-4,962,822	Oct 16, 1990	Pascale	
	A22	US-4,960,173	Oct 2, 1990	Cognevich et al.	
	A23	US-4,883,125	Nov 28, 1989	Wilson et al.	
	A24	US-4,686,653	Aug 11, 1987	Staron et al.	

Examiner Frank Tsay Date Considered 10/16/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	June 9, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A25	US-4,651,837	Mar 24, 1987	Mayfield	
	A26	US-4,643,377	Feb 17, 1987	Christianson	
	A27	US-4,624,306	Nov 25, 1986	Traver et al.	
	A28	US-4,570,709	Feb 18, 1986	Wittrisch	
	A29	US-4,463,814	Aug 7, 1984	Horstmeyer et al.	
	A30	US-4,243,099	Jan 6, 1981	Rodgers, Jr.	
	A31	US-4,192,380	Mar 11, 1980	Smith	
	A32	US-4,085,808	Apr 25, 1978	Kling	
	A33	US-4,071,086	Jan 31, 1978	Bennett	
	A34	US-4,031,750	Jun 28, 1977	Youmans et al.	
	A35	US-3,969,950	Jul 20, 1976	Rau et al.	
	A36	US-3,890,905	Jun 24, 1975	Clavin	
	A37	US-3,888,319	Jun 10, 1975	Bourne, Jr., et al.	
	A38	US-3,827,512	Aug 6, 1974	Edmond	
	A39	US-3,603,411	Sep 7, 1971	Link	
	A40	US-3,552,508	Jan 5, 1971	Brown	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B1	EP 0 564 500 B1	05.10.94	Hallundbaek		
	B2	WO 98/06927	19.02.98	Simpson		
	B3	WO 95/21987	17.08.95	Einar		
	B4	WO 93/18277	16.09.93	Hallundbaek		
	B5	WO 91/16520	31.10.91	Hallundbaek		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	June 9, 2004

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	C1	Rotary Steerable Technology – Technology Gains Momentum, Oil & Gas Journal, 12/28/1998	
	C2	Directional Drilling, M. Mims, World Oil, May 1999, pp. 40-43	
	C3	Multilateral Classification System w/Example Applications", Alan MacKenzie & Cliff Hogg, World Oil, Jan. 1999, pp. 55-61	
	C4	Rotary Drilling, Open-Hole Fishing, Unit III, Lesson 2, Third Edition	
	C5	Rotary Drilling, Casing and Cementing, Unit II, Lesson 4, Second Edition	
	C6	Rotary Drilling, Drilling a Straight Hole, Unit II, Lesson 3, Second Edition	
	C7	Rotary Drilling, The Bit, Unit I, Lesson 2, Third Edition	
	C8	Rotary Drilling, Blowout Prevention, Unit III, Lesson 3, Third Edition	
	C9	Well Servicing and Workover, Artificial Lift Methods, Lesson 5, Petroleum Extension Service, The University of Texas at Austin	
	C10	Rotary Drilling, Drilling Mud, Unit II, Lesson 2, Third Edition	
	C11	Rotary Drilling, Subsea Blowout Preventers and Marine Riser Systems, Unit III, Lesson 4	
	C12	Well Servicing and Workover, Control of Formation Pressure, Lesson 9, Petroleum Extension Service, The University of Texas at Austin	
	C13	Well Servicing and Workover, Production Rig Equipment, Lesson 6, Petroleum Extension Service, The University of Texas at Austin	
	C14	Well Servicing and Workover, Petroleum Geology and Reservoirs, Lesson 2, Petroleum Extension Service, The University of Texas at Austin	
	C15	Well Servicing and Workover, Well Logging Methods, Lesson 3, Petroleum Extension Service, The University of Texas at Austin	
	C16	Well Servicing and Workover, Introduction to Oil Well Service and Workover, Lesson 1, Petroleum Extension Service, The University of Texas at Austin	
	C17	Well Servicing and Workover, Well Completion Methods, Lesson 4, Petroleum Extension Service, The University of Texas at Austin	
	C18	Rotary Drilling, Controlled Directional Drilling, Unit III, Lesson 1, Third Edition	
	C19	Well Servicing and Workover, Well Stimulation Treatments, Lesson 11, Petroleum Extension Service, The University of Texas at Austin	
	C20	Rotary Drilling, Making Hole, Unit II, Lesson 1, Second Edition	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 4

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	June 9, 2004

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	C21	Well Servicing and Workover, Well Cleanout and Repair Methods, Lesson 8, Petroleum Extension Service, The University of Texas at Austin	
	C22	Well Servicing and Workover, Well Servicing and Repair, Lesson 7, Petroleum Extension Service, The University of Texas at Austin	
	C23	Rotary Drilling, Circulating Systems, Unit I, Lesson 8, Third Edition	
	C24	Well Servicing and Workover, Well Service and Workover Profitability, Lesson 12, Petroleum Extension Service, The University of Texas at Austin	
	C25	Rotary Drilling, Testing and Completing, Unit II, Lesson 5, Second Edition	
	C26	Well Servicing and Workover, Fishing Tools and Techniques, Lesson 10, Petroleum Extension Service, The University of Texas at Austin	

Examiner Frank Tsay Date Considered 10/16/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	July 15, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-6,668,937	Dec 30, 2003	Murray	
	A2	US-6,634,430	Oct 21, 2003	Dawson et al.	
	A3	US-5,560,440	Oct 1, 1996	Tibbitts	
	A4	US-5,546,317	Oct 10, 1995	Hood, III, et al.	
	A5	US-5,181,571	Jan 26, 1993	Mueller et al.	
	A6	US-4,825,947	May 2, 1989	Mikolajczyk	
	A7	US-4,595,058	Jun 17, 1986	Nations	
	A8	US-4,489,793	Dec 25, 1984	Boren	
	A9	US-4,466,498	Aug 21, 1984	Bardwelll	
	A10	US-2,295,803	Sept 15, 1940	O'Leary	
	A11	US-1,185,582	May 30, 1916	Bignell	
	A12				
	A13				
	A14				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B1	WO 00/08293	Feb 17, 2000	Van Drentham-Susman		
	B2					
	B3					
	B4					
	B5					

Examiner _____ Date Considered 10/16/04

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0525
Submission Date	July 27, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1				
	A2				
	A3				
	A4				
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	A14				
	A15				
	A16				
	A17				
	A18				

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
FT	C1	Rotary Drilling, The Drill Stem, Unit I, Lesson 3, Second Edition, The University of Texas at Austin, Austin, Texas	
FT	C2	Rotary Drilling Series, The Rotary Rig and Its Components, Unit I, Lesson 1, Third Edition, The University of Texas at Austin, Austin, Texas	

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U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		WEAT/0525	10/678,731
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant William B. Vail, III	Confirmation No.: 6110
(Use several sheets if necessary)		Filing Date	Group
	Examiner Unknown	10/02/2003	3672

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A1	6,591,471	07-15-2003	Hollingsworth et al.	29	407.09	
	A2	6,554,064	04-29-2003	Restarick et al.	166	250.01	
	A3	6,543,538	04-08-2003	Tolman et al.	166	284	
	A4	6,538,576	03-25-2003	Schultz et al.	340	859.6	
	A5	6,536,522	03-25-2003	Birckhead et al.	166	250.15	
	A6	6,536,520	03-25-2003	Snider et al.	166	78.1	
	A7	6,527,064	03-04-2003	Hallundbaek	175	320	
	A8	6,527,047	03-04-2003	Pietras	166	77.51	
	A9	6,509,301	01-21-2003	Vollmer	507	236	
	A10	6,497,280	12-24-2002	Beck et al.	166	250.07	
	A11	6,484,818	11-26-2002	Alft et al.	175	45	
	A12	6,464,004	10-15-2002	Crawford et al.	166	250.01	
	A13	6,443,247	09-03-2002	Wardley	175	402	
	A14	6,443,241	09-03-2002	Juhasz et al.	175	52	
	A15	6,427,776	08-06-2002	Hoffman et al.	166	311	
	A16	6,419,033	07-16-2002	Hahn et al.	176	61	
	A17	6,419,014	07-16-2002	Meek et al.	166	255.2	
	A18	6,412,574	07-02-2002	Wardley et al.	175	7	
	A19	6,412,554	07-02-2002	Allen et al.	166	80.1	
	A20	6,408,943	06-25-2002	Schultz et al.	166	285	
	A21	6,405,798	06-18-2002	Barrett et al.	166	250.01	
	A22	6,397,946	06-04-2002	Vail, III	166	250.01	
	A23	6,378,633	04-30-2002	Moore et al.	175	325.5	
	A24	6,378,630	04-30-2002	Ritorto et al.	175	173	
	A25	6,378,627	04-30-2002	Tubel et al.	175	24	
	A26	6,374,924	04-23-2002	Hanton et al.	176	6	
	A27	6,371,203	04-16-2002	Frank et al.	166	207	

Examiner [signature] Date Considered 10/16/04

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U.S. Department of Commerce, Patent and Trademark Office	Docket No.	Serial No.
(PTO Form 1449 modified)	WEAT/0525	10/678,731
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT	Applicant William B. Vail, III	Confirmation No.: 6110
(Use several sheets if necessary)	Filing Date	Group
Examiner Unknown	10/02/2003	3672

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A28	6,359,569	03-19-2002	Beck et al.	340	856.3	
	A29	6,357,485	03-19-2002	Quigley et al.	138	125	
	A30	6,354,373	03-12-2002	Vercaemer et al.	166	277	
	A31	6,347,674	02-19-2002	Bloom et al.	175	51	
	A32	6,343,649	02-05-2002	Beck et al.	166	250.01	
	A33	6,325,148	12-04-2001	Trahan et al.	166	297	
	A34	6,315,051	11-13-2001	Ayling	166	380	
	A35	6,311,792	11-06-2001	Scott et al.	175	162	
	A36	6,296,066	10-02-2001	Terry et al.	175	92	
	A37	6,273,189	08-14-2001	Gissler et al.	166	241.1	
	A38	6,263,987	07-24-2001	Vail, III	175	318	
	A39	6,257,332	07-10-2001	Vidrine et al.	166	250.15	
	A40	6,234,257	05-22-2001	Ciglenec et al.	175	50	
	A41	6,225,719	05-01-2001	Hallundbaek	310	90	
	A42	6,220,117	04-24-2001	Butcher	76	108.2	
	A43	6,206,112	03-27-2001	Dickinson, III et al.	175	67	
	A44	6,196,336	03-06-2001	Fincher et al.	175	101	
	A45	6,192,980	02-27-2001	Tubel et al.	166	65.1	
	A46	6,189,621	02-20-2001	Vail, III	166	385	
	A47	6,182,776	02-06-2001	Asberg	175	300	
	A48	6,179,055	01-30-2001	Sallwasser et al.	166	254.2	
	A49	6,172,010	01-09-2001	Argillier et al.	507	102	
	A50	6,170,573	01-09-2001	Brunet et al.	166	153	
	A51	6,158,531	12-12-2000	Vail, III	175	318	
	A52	6,148,664	11-21-2000	Baird	73	152.38	

Examiner [signature] Date Considered 10/16/06

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A53	6,119,772	09-19-2000	Pruet	166	81.1	
	A54	6,089,323	07-18-2000	Newman et al.	166	381	
	A55	6,082,461	07-04-2000	Newman et al.	166	381	
	A56	6,065,550	05-23-2000	Gardes	175	62	
	A57	6,062,326	05-16-2000	Strong et al.	175	402	
	A58	6,061,000	05-09-2000	Edwards	340	854.6	
	A59	6,059,053	05-09-2000	McLeod	175	258	
	A60	6,059,051	05-09-2000	Jewkes et al.	175	76	
	A61	6,026,911	02-22-2000	Angle et al.	175	24	
	A62	6,000,472	12-14-1999	Albright et al.	166	380	
	A63	5,971,079	10-26-1999	Mullins	166	387	
	A64	5,957,225	09-28-1999	Sinor	175	57	
	A65	5,954,131	09-21-1999	Sallwasser	166	254.2	
	A66	5,950,742	09-14-1999	Caraway	175	57	
	A67	5,947,213	09-07-1999	Angle et al.	175	24	
	A68	5,931,231	08-03-1999	Mock	166	377	
	A69	5,921,332	07-13-1999	Spedale, Jr.	175	415	
	A70	5,921,285	07-13-1999	Quigley et al.	138	125	
	A71	5,913,337	06-22-1999	Williams et al.	138	125	
	A72	5,908,049	06-01-1999	Williams et al.	138	125	
	A73	5,907,664	05-25-1999	Wang et al.	395	86	
	A74	5,894,897	04-20-1999	Vail, III	175	318	
	A75	5,809,549	04-06-1999	Sprehe	175	71	
	A76	5,890,537	04-06-1999	Lavaure et al.	166	285	
	A77	5,860,474	01-19-1999	Stoltz et al.	166	50	
	A78	5,845,722	12-08-1998	Makohl et al.	175	101	

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U.S. Patent Documents

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	A79	5,842,530	12-01-1998	Smith et al.	175	162	
	A80	5,842,149	11-24-1998	Harrell et al.	702	9	
	A81	5,839,519	11-24-1998	Spedale, Jr.	175	57	
	A82	5,839,330	11-24-1998	Stokka	81	57.33	
	A83	5,829,520	11-03-1998	Johnson	166	250.1	
	A84	5,828,003	10-27-1998	Thomeer et al.	174	69	
	A85	5,804,713	09-08-1998	Kluth	73	152.01	
	A86	5,794,703	08-18-1998	Newman et al.	166	381	
	A87	5,785,134	07-28-1998	McLeod et al.	175	258	
	A88	5,769,160	06-23-1998	Owens	166	65.1	
	A89	5,746,276	05-05-1998	Stuart	173	1	
	A90	5,743,344	04-28-1998	McLeod et al.	175	259	
	A91	5,735,348	04-07-1998	Hawkins, III	166	285	
	A92	5,732,776	03-31-1998	Tubel et al.	166	250.15	
	A93	5,720,356	02-24-1998	Gardes	175	62	
	A94	5,711,382	01-27-1998	Hansen et al.	175	52	
	A95	5,667,026	09-16-1997	Lorenz et al.	175	162	
	A96	5,667,023	09-16-1997	Harrell et al.	175	45	
	A97	5,667,011	09-16-1997	Gill et al.	166	295	
	A98	5,662,182	09-02-1997	McLeod et al.	175	258	
	A99	5,662,170	09-02-1997	Donovan et al.	166	358	
	A100	5,661,888	09-02-1997	Hanslik	29	407.02	
	A101	5,651,420	07-29-1997	Tibbitts et al.	175	102	
	A102	5,584,343	12-17-1996	Coone	166	387	
	A103	5,582,259	12-10-1996	Barr	175	73	
	A104	5,560,437	10-01-1996	Dickel et al.	175	40	

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A105	5,553,672	09-10-1996	Smith, Jr. et al.	166	382	
	A106	5,551,521	09-03-1996	Vail, III	175	65	
	A107	5,547,314	08-20-1996	Ames	405	165	
	A108	5,547,029	08-20-1996	Rubbo et al.	166	375	
	A109	5,535,838	07-16-1996	Keshavan et al.	175	374	
	A110	5,535,824	07-16-1996	Hudson	166	207	
	A111	5,497,840	03-12-1996	Hudson	175	72	
	A112	5,472,057	12-05-1995	Winfree	175	57	
	A113	5,452,923	09-26-1995	Smith	285	145	
	A114	5,412,568	05-02-1995	Schultz	364	422	
	A115	5,398,760	03-21-1995	George et al.	166	297	
	A116	5,392,715	02-28-1995	Pelrine	104	138.2	
	A117	5,386,746	02-07-1995	Hauk	81	57.34	
	A118	5,379,835	01-10-1995	Streich	166	181	
	A119	5,368,113	11-29-1994	Schulze-Beckinghausen	175	162	
	A120	5,355,967	10-18-1994	Mueller et al.	175	65	
	A121	5,354,150	10-11-1994	Canales	405	154	
	A122	5,353,872	10-11-1994	Wittrisch	166	250	
	A123	5,343,950	09-06-1994	Hale et al.	166	293	
	A124	5,339,899	08-23-1994	Ravi et al.	166	250	
	A125	5,332,048	07-26-1994	Underwood et al.	175	26	
	A126	5,323,858	06-28-1994	Jones et al.	166	291	
	A127	5,320,178	06-14-1994	Cornette	175	19	
	A128	5,305,830	04-26-1994	Wittrisch	166	250	
	A129	5,297,833	03-29-1994	Willis et al.	294	102.2	
	A130	5,294,228	03-15-1994	Willis et al.	414	22.55	

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A131	5,291,956	03-08-1994	Mueller et al.	175	67	
	A132	5,285,204	02-08-1994	Sas-Jaworsky	340	854.9	
	A133	5,285,008	02-08-1994	Sas-Jaworsky et al.	174	47	
	A134	5,282,653	02-01-1994	LaFleur et al.	285	110	
	A135	5,271,472	12-21-1993	Leturno	175	107	
	A136	5,255,751	10-26-1993	Stogner	175	203	
	A137	5,255,741	10-26-1993	Alexander	166	278	
	A138	5,234,052	08-10-1993	Coone et al.	166	155	
	A139	5,209,302	05-11-1993	Robichaux et al.	166	355	
	A140	5,197,553	03-30-1993	Leturno	175	57	
	A141	5,191,939	03-09-1993	Stokley	166	379	
	A142	5,186,265	02-16-1993	Henson et al.	175	107	
	A143	5,176,518	01-05-1993	Hordijk et al.	434	37	
	A144	5,176,180	01-05-1993	Williams et al.	138	172	
	A145	5,172,765	12-22-1992	Sas-Jaworsky	166	384	
	A146	5,168,942	12-08-1992	Wydrinski	175	50	
	A147	5,160,925	11-03-1992	Dailey et al.	340	853.3	
	A148	5,156,213	10-20-1992	George et al.	166	297	
	A149	5,148,875	09-22-1992	Karlsson et al.	175	62	
	A150	5,111,893	05-12-1992	Kvello-Aune	175	258	
	A151	5,096,465	03-17-1992	Chen et al.	51	295	
	A152	5,082,069	01-21-1992	Seiler et al.	175	5	
	A153	5,074,366	12-24-1991	Karlsson et al.	175	76	
	A154	5,069,297	12-03-1991	Krueger, deceased et al.	175	65	
	A155	5,060,737	10-29-1991	Mohn	175	104	

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A156	5,060,542	10-29-1991	Hauk	81	57.34	
	A157	5,049,020	09-17-1991	McArthur	414	22.51	
	A158	5,027,914	07-02-1991	Wilson	175	406	
	A159	5,022,472	06-11-1991	Bailey et al.	175	195	
	A160	5,009,265	04-23-1991	Bailey et al.	166	118	
	A161	4,997,042	03-05-1991	Jordan et al.	166	379	
	A162	4,962,822	10-16-1990	Pascale	175	258	
	A163	4,921,386	05-01-1990	McArthur	414	22.51	
	A164	4,909,741	03-20-1990	Schasteen et al.	439	13	
	A165	4,880,058	11-14-1989	Lindsey et al.	166	289	
	A166	4,854,386	08-08-1989	Baker et al.	166	289	
	A167	4,843,945	07-04-1989	Dinsdale	81	57.34	
	A168	4,842,081	06-27-1989	Parant	175	23	
	A169	4,840,128	06-20-1989	McFarlane et al.	108	50	
	A170	4,832,552	05-23-1989	Skelly	414	22.54	
	A171	4,813,495	03-21-1989	Leach	175	6	
	A172	4,765,416	08-23-1988	Bjerking et al.	175	71	
	A173	4,762,187	08-09-1988	Haney	175	71	
	A174	4,760,882	08-02-1988	Novak	166	295	
	A175	4,735,270	04-05-1988	Fenyvesi	175	113	
	A176	4,725,179	02-16-1988	Woolslayer et al.	414	22	
	A177	4,691,587	09-08-1987	Farrand et al.	74	493	
	A178	4,676,310	06-30-1987	Scherbatskoy et al.	166	65.1	
	A179	4,671,358	06-09-1987	Lindsey, Jr. et al.	166	291	
	A180	4,686,873	08-18-1987	Lang et al.	81	57.35	

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	A181	4,655,286	04-07-1987	Wood	166	285	
	A182	4,652,195	03-24-1987	McArthur	414	22	
	A183	4,651,837	03-24-1987	Mayfield	175	262	
	A184	4,630,691	12-23-1986	Hooper	175	65	
	A185	4,605,077	08-12-1986	Boyadjieff	175	85	
	A186	4,604,724	08-05-1986	Shaginian et al.	364	478	
	A187	4,589,495	05-20-1986	Langer et al.	166	383	
	A188	4,583,603	04-22-1986	Dorleans et al.	175	324	
	A189	4,580,631	04-08-1986	Baugh	166	208	
	A190	4,545,443	10-08-1985	Wiredal	175	258	
	A191	4,544,041	10-01-1985	Rinaldi	175	57	
	A192	4,534,426	08-13-1985	Hooper	175	65	
	A193	4,474,243	10-02-1984	Gaines	166	362	
	A194	4,472,002	09-18-1984	Beney et al.	308	3.9	
	A195	4,470,470	09-11-1984	Takano	175	260	
	A196	4,463,814	08-07-1984	Horstmeyer et al.	175	45	
	A197	4,460,053	07-17-1984	Jurgens et al.	175	329	
	A198	4,440,220	04-03-1984	McArthur	166	85	
	A199	4,430,892	02-14-1984	Owings	73	151	
	A200	4,413,682	11-08-1983	Callihan et al.	166	382	
	A201	4,408,669	10-11-1983	Wiredal	175	258	
	A202	4,384,627	05-24-1983	Ramirez-Jauregui	175	260	
	A203	4,336,415	06-22-1982	Walling	174	47	
	A204	4,320,915	03-23-1982	Abbott et al.	294	96	
	A205	4,315,553	02-16-1982	Stallings	175	207	
	A206	4,291,772	09-29-1981	Beynet	175	5	

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A207	4,287,949	09-08-1981	Lindsey, Jr.	166	212	
	A208	4,281,722	08-04-1981	Tucker et al.	175	57	
	A209	4,274,777	06-23-1981	Scaggs	414	22	
	A210	4,262,693	04-21-1981	Giebeler	137	494	
	A211	4,257,442	03-24-1981	Claycomb	137	238	
	A212	4,256,146	03-17-1981	Genini et al.	138	111	
	A213	4,227,197	10-07-1980	Nimmo et al.	343	878	
	A214	4,194,383	03-25-1980	Huzyak	72	245	
	A215	4,175,619	11-27-1979	Davis	166	291	
	A216	4,173,457	11-06-1979	Smith	51	309	
	A217	4,144,396	03-13-1979	Okano et al.	560	246	
	A218	4,142,739	03-06-1979	Billingsley	285	18	
	A219	4,133,396	01-09-1979	Tschirky	175	57	
	A220	4,116,274	09-26-1978	Rankin et al.	166	250	
	A221	4,113,236	09-12-1978	Neinast	254	134.5	
	A222	4,100,968	07-18-1978	Delano	166	315	
	A223	4,085,808	04-25-1978	Kling	175	94	
	A224	4,082,144	04-04-1978	Marquis	166	250	
	A225	4,077,525	03-07-1978	Callegari et al.	214	2.5	
	A226	4,064,939	12-27-1977	Marquis	166	253	
	A227	4,063,602	12-20-1977	Howell et al.	175	7	
	A228	4,054,426	10-18-1977	White	51	309	
	A229	4,049,066	09-20-1977	Richey	175	323	
	A230	4,009,561	03-01-1977	Young	57	6	
	A231	4,006,777	02-08-1977	LaBauve	166	250	
	A232	3,980,143	09-14-1976	Swartz et al.	173	100	

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U.S. Patent Documents

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	A234	3,964,556	06-22-1976	Gearhart et al.	175	45	
	A235	3,945,444	03-23-1976	Knudson	175	92	
	A236	3,933,108	01-20-1976	Baugh	114	.5	
	A237	3,885,679	05-27-1975	Swoboda, Jr. et al.	214	1	
	A238	3,881,375	05-06-1975	Kelly	81	57.35	
	A239	3,870,114	03-11-1975	Pulk, deceased et al.	175	258	
	A240	3,840,128	10-08-1974	Swoboda, Jr. et al.	214	1	
	A241	3,838,613	10-01-1974	Wilms	81	57.34	
	A242	3,808,916	05-07-1974	Porter et al.	81	57.19	
	A243	3,747,675***	07-24-1973	Brown	166	237	
	A244	3,729,057	04-24-1973	Werner	175	262	
	A245	3,692,126	09-19-1972	Rushing et al.	175	259	
	A246	3,656,564	04-18-1972	Brown	175	228	
	A247	3,603,413	09-07-1971	Grill, et al.	175	261	
	A248	3,603,412	09-07-1971	Kammerer, Jr. et al.	175	260	
	A249	3,603,411	09-07-1971	Link	175	259	
	A250	3,559,739	02-02-1971	Hutchison	166	311	
	A251	3,570,598	03-16-1971	Johnson	166	178	
	A252	3,552,510	01-05-1971	Brown	175	261	
	A253	3,552,509	01-05-1971	Brown	175	258	
	A254	3,552,508	01-05-1971	Brown	175	258	
	A255	3,550,684	12-19-1970	Cubberly, Jr.	166	250	
	A256	3,518,903	07-07-1970	Ham, et al.	81	57.16	
	A257	3,392,609	07-16-1968	Bartos	81	57	
	A258	3,380,528	04-30-1968	Timmons	166	14	

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	A259	3,159,219	12-01-1964	Scott	166	156	
	A260	3,123,160	03-03-1964	Kammerer	175	82	
	A261	3,122,811	03-03-1964	Gilreath	24	263	
	A262	3,036,530	05-29-1962	Mills, et al.	104	155	
	A263	2,743,495	05-01-1956	Eklund	22	202	
	A264	2,738,011	03-13-1956	Mabry	166	144	
	A265	2,692,059	10-19-1954	Bolling, Jr.	214	2.5	
	A266	2,668,689	02-09-1954	Cormany	255	35	
	A267	2,650,314	08-25-1953	Hennigh, et al.	310	67	
	A268	2,621,742	12-16-1952	Brown	166	1	
	A269	2,610,690	09-16-1952	Beatty	166	16	
	A270	2,522,444	09-12-1950	Grable	166	16	
	A271	2,214,429	09-10-1940	Miller	166	16	
	A272	1,917,135	07-04-1933	Littell			
	A273	1,842,638	01-26-1932	Wigle			
	A274	2003/0070841		Merecka et al.			11-19-2002
	A275	2003/0056991		Hahn et al.			07-12-2002
	A276	2003/0034177		Chitwood et al.			08-15-2002
	A277	2002/0189863		Wardley			12-21-2000
	A278	2002/0189806		Davidson et al.			06-13-2002
	A279	2002/0162690		Hanton et al.			11-27-2001
	A280	2002/0157829		Davis et al.			04-26-2001
	A281	2002/0134555		Allen et al.			12-07-2001
	A282	2002/0074132		Juhasz et al.			03-03-2000
	A283	2002/0074127		Birckhead et al.			02-22-2001
	A284	2002/0066556		Goode et al.			08-02-2001

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U.S. Department of Commerce, Patent and Trademark Office	Docket No.	Serial No.
(PTO Form 1449 modified)	WEAT/0525	10/678,731
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT	Applicant William B. Vail, III	Confirmation No.: 6110
(Use several sheets if necessary)	Filing Date	Group
Examiner Unknown	10/02/2003	3672

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A285	2001/0047883		Hanton et al.			02-18-2000
	A286	2001/0042625		Appleton			07-30-2001
	A287	2001/0040054		Haugen et al.			05-04-2001
	A288	2001/0013412		Tubel			01-18-2001
	A289	2001/0000101		Lovato et al.			12-07-2000
	A290	10/618,093					
	A291	10/382,353					
	A292	10/382,080					
	A293	10/335,957					
	A294	10/331,964					
	A295	10/325,636					
	A296	10/319,792					
	A297	10/269,661					
	A298	10/189,570					
	A299	5,613,567					
	A300	6,547,017	04-15-2003	Vail, III	175	379	
	A301	5,836,409	11-17-1998	Vail, III	175	379	
	A302	5,615,747	04-01-1997	Vail, III	175	379	
	A303	5,343,951	09-06-1994	Cowan et al.	166	293	
	A304	4,883,125	11-28-1989	Wilson et al.	166	291	

Examiner [signature] Date Considered 10/16/06

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Examiner Unknown	10/02/2003	3672

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	B1	WO 02/086287	10-31-2002	WIPO	E21B	47/01	☐	☒
	B2	WO 02/03156	01-10-2002	WIPO	G05B	19/418	☐	☒
	B3	WO 02/03155	01-10-2002	WIPO	G05B	19/4068	☐	☒
	B4	WO 01/94739	12-13-2001	WIPO	E21B	7/20	☐	☒
	B5	WO 01/94738	12-13-2001	WIPO	E21B	7/20	☐	☒
	B6	WO 01/81708	11-01-2001	WIPO	E21B	10/32	☐	☒
	B7	WO 01/79650	10-25-2001	WIPO	E21B	10/60	☐	☒
	B8	WO 01/48352	07-05-2001	WIPO	E21B	23/00	☐	☒
	B9	WO 01/46550	06-28-2001	WIPO	E21B	7/20	☐	☒
	B10	WO 01/12946	02-22-2001	WIPO	E21B	19/00	☐	☒
	B11	WO 00/50730	08-31-2000	WIPO	E21B	10/66	☐	☒
	B12	WO 00/28188	05-18-2000	WIPO	E21B	7/06	☐	☒
	B13	WO 00/37771	06-29-2000	WIPO	E21B	43/10	☐	☒
	B14	WO 00/11311	03-02-2000	WIPO	E21B	19/16	☐	☒
	B15	WO 00/11310	03-02-2000	WIPO	E21B	19/16	☐	☒
	B16	WO 00/11309	03-02-2000	WIPO	E21B	19/16	☐	☒
	B17	WO 00/05483	02-03-2000	WIPO	E21B	19/16	☐	☒
	B18	WO 98/55730	12-10-1998	WIPO	E21B	23/00	☐	☒
	B19	WO 97/08418	03-06-1997	WIPO	E21B	4/18	☐	☒
	B20	WO 98/01651	01-15-1998	WIPO	E21B	23/00	☐	☒
	B21	GB 2 357 101	06-13-2001	UK	E21B	7/06	☐	☒
	B22	EP 1 050 661	11-08-2000	EP	E21B	7/18	☐	☒
	B23	EP 0 571 045	08-19-1998	EP	E21B	7/06	☐	☒
	B24	GB 2 216 926	10-18-1989	UK	E21B	7/20	☐	☒
	B25	SU 1618870	01-07-1991	Russia	E21B	33/14	☐	☒
	B26	WO 96/28635	09-19-1996	WIPO	E21B	17/14	☐	☒

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Examiner Unknown	10/02/2003	3672

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C1	Tarr, et al., "Casing-while-Drilling: The Next Step Change In Well Construction," World Oil, October 1999, pp. 34-40
	C2	De Leon Mojarro, "Breaking A Paradigm: Drilling With Tubing Gas Wells," SPE Paper 40051, SPE Annual Technical Conference And Exhibition, March 3-5, 1998, pp. 465-472
	C3	De Leon Mojarro, "Drilling/Completing With Tubing Cuts Well Costs By 30%," World Oil, July 1998, pp. 145-150
	C4	Littleton, "Refined Slimhole Drilling Technology Renews Operator Interest," Petroleum Engineer International, June 1992, pp. 19-26
	C5	Anon, "Slim Holes Fat Savings," Journal of Petroleum Technology, September 1992, pp. 816-819
	C6	Anon, "Slim Holes, Slimmer Prospect," Journal of Petroleum Technology, November 1995, pp. 949-952
	C7	Vogt, et al., "Drilling Liner Technology For Depleted Reservoir," SPE Paper 36827, SPE Annual Technical Conference And Exhibition, October 22-24, pp. 127-132
	C8	Jafer, et al., "Discussion And Comparison Of Performance Of Horizontal Wells In Bouri Field," SPE Paper 36927, SPE Annual Technical Conference And Exhibition, October 22-24, 1996, pp. 465-473
	C9	Boykin, "The Role Of A Worldwide Drilling Organization And The Road To The Future," SPE/IADC Paper 37630, SPE/IADC Drilling Conference, March 4-6, 1997, pp. 489-498
	C10	Mojarro, et al., "Drilling/Completing With Tubing Cuts Well Costs By 30%," World Oil, July 1998, pp. 145-150
	C11	Sinor, et al., Rotary Liner Drilling For Depleted Reservoirs," IADC/SPE Paper 39399, IADC/SPE Drilling Conference, March 3-6, 1998, pp 1-13
	C12	Editor, "Innovation Starts At The Top At Tesco," The American Oil & Gas Reporter, April, 1998, p. 65
	C13	Tessari, et al., "Casing Drilling – A Revolutionary Approach To Reducing Well Costs," SPE/IADC Paper 52789, SPE/IADC Drilling Conference, March 9-11, 1999, pp. 221-229
	C14	Santos, et al., "Consequences And Relevance Of Drillstring Vibration On Wellbore Stability," SPE/IADC Paper 52820, SPE/IADC Drilling Conference, March 9-11, 1999, pp. 25-31
	C15	Silverman, "Novel Drilling Method – Casing Drilling Process Eliminates Tripping String," Petroleum Engineer International, March 1999, p. 15
	C16	Silverman, "Drilling Technology – Retractable Bit Eliminates Drill String Trips," Petroleum Engineer International, April 1999, p. 15

Examiner	Date Considered 10/16/06

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Examiner Unknown	10/02/2003	3672

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C17	Laurent, et al., "A New Generation Drilling Rig: Hydraulically Powered And Computer Controlled," CADE/CAODC Paper 99-120, CADE/CAODC Spring Drilling Conference, April 7 & 8, 1999, 14 pages
	C18	Madell, et al., "Casing Drilling An Innovative Approach To Reducing Drilling Costs," CADE/CAODC Paper 99-121, CADE/CAODC Spring Drilling Conference, April 7 & 8, 1999, pp. 1-12
	C19	Tessari, et al., "Focus: Drilling With Casing Promises Major Benefits," Oil & Gas Journal, May 17, 1999, pp. 58-62
	C20	Laurent, et al., "Hydraulic Rig Supports Casing Drilling, " World Oil, September 1999, pp. 61-68
	C21	Perdue, et al., "Casing Technology Improves," Hart's E & P, November 1999, pp. 135-136
	C22	Warren, et al., "Casing Drilling Application Design Considerations," IADC/SPE Paper 59179, IADC/SPE Drilling Conference, February 23-25, 2000 pp 1-11
	C23	Warren, et al., "Drilling Technology: Part I – Casing Drilling With Directional Steering In The U.S. Gulf Of Mexico," Offshore, January 2001, pp. 50-52
	C24	Warren, et al., "Drilling Technology: Part II – Casing Drilling With Directional Steering In The Gulf Of Mexico," Offshore, February 2001, pp. 40-42
	C25	Shepard, et al., "Casing Drilling: An Emerging Technology," IADC/SPE Paper 67731, SPE/IADC Drilling Conference, February 27-March 1, 2001, pp. 1-13
	C26	Editor, "Tesco Finishes Field Trial Program," Drilling Contractor, March/April 2001, p. 53
	C27	Warren, et al., "Casing Drilling Technology Moves To More Challenging Application," AADE Paper 01-NC-HO-32, AADE National Drilling Conference, March 27-29, 2001, pp. 1-10
	C28	Shephard, et al., "Casing Drilling: An Emerging Technology," SPE Drilling & Completion, March 2002, pp. 4-14
	C29	Shephard, et al., "Casing Drilling Successfully Applied In Southern Wyoming," World Oil, June 2002, pp. 33-41
	C30	Forest, et al., "Subsea Equipment For Deep Water Drilling Using Dual Gradient Mud System," SPE/IADC Drilling Conference, Amsterdam, The Netherlands, February 27, 2001-March 01, 2001, 8 pages
	C31	"World's First Drilling With Casing Operation From A Floating Drilling Unit, September 2003, 1 page
	C32	Filippov, et al., "Expandable Tubular Solutions," SPE paper 56500, SPE Annual Technical Conference And Exhibition, October 3-6, 1999, pp. 1-16

Examiner [signature] Date Considered 10/16/08

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Examiner Unknown	10/02/2003	3672

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C33	Lohefer, et al., "Expandable Liner Hanger Provides Cost-Effective Alternative Solution," IADC/SPE Paper 59151, IADC/SPE Drilling Conference, February 23-25, 2000, pp. 1-12
	C34	Daigle, et al., "Expandable Tubulars: Field Examples Of Application In Well Construction And Remediation," SPE Paper 62958, SPE Annual Technical Conference And Exhibition, October 1-4, 2000, pp. 1-14
	C35	Dupal, et al., "Solid Expandable Tubular Technology – A Year Of Case Histories In The Drilling Environment," SPE/IADC Paper 67770, SP:E/IADC Drilling Conference, February 27-March 1, 2001, pp. 1-16
	C36	Coronado, et al., "Development Of A One-Trip ECP Cement Inflation And Stage Cementing System For Open Hole Completions," IADC/SPE Paper 39345, IADC/SPE Drilling Conference, march 3-6, 1998, pp. 473-481
	C37	Fuller, et al., "Innovative Way To Cement A Liner Utilizing A New Liner String Liner Cementing Process, " IADC/SPE Paper 39349, IADC/SPE Drilling Conference, March 3-6, 1998, pp. 501-504
	C38	Coronado, et al., "A One-Trip External-Casing-Packer Cement-Inflation And Stage-Cementing System," Journal Of Petroleum Technology, August 1998, pp. 76-77
	C39	Camesa, Inc., "Electromechanical Cable," December 1998, pp. 1-32
	C40	The Rochester Corporation, "Well Logging Cables," July 1999, 9 pages
	C41	Quigley, "Coiled Tubing And Its Applications," SPE Short Course, Houston, Texas, October 3, 1999, 9 pages
	C42	"World Oil's Coiled Tubing handbook," Gulf Publishing Co., 1993, p. 3, p. 5, pp. 45-50
	C43	Sas-Joworsky, et al., "Development Of Composite Coiled Tubing For Oilfield Services," SPE Paper 26536, SPE Annual Technical Conference And Exhibition, October 3-6, 1993, pp. 1-15
	C44	Hallundbaek, "Well Tractors For Highly Deviated And Horizontal Wells," SPE paper 028871, SPE European Petroleum Conference, October 25-27, 1994, pp. 57-62
	C45	Leising, et al., "Extending The Reach Of Coiled Tubing Drilling (thrusters, Equalizers And Tractors)," SPE/IADC Paper 37656, SPE/IADC Drilling Conference, March 4-6, 1997, pp. 677-690
	C46	Bayfiled, et al., "Burst And Collapse Of A Sealed Multilateral Junction: Numerical Simulations," SPE/IADC Paper 52873, SPE/IADC Drilling Conference, March 9-11, 1999, 8 pages

Examiner [signature] Date Considered 10/16/08

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Examiner Unknown	10/02/2003	3672

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C47	Marker, et al. "Anaconda: Joint Development Project Leads To Digitally Controlled Composite Coiled Tubing Drilling System," SPE paper 60750, SPE/ICOTA Coiled Tubing Roundtable, April 5-6, 2000, pp 1-9
	C48	Bullock, et al., "Using Expandable Solid Tubulars To Solve Well Construction Challenges In Deep Waters And Maturing Properties," IBP Paper 275 00, Rio Oil & Gas Conference, October 16-19, 2000, pp. 1-4
	C49	Cales, et al., "Subsidence Remediation – Extending Well Life Through The Use Of Solid Expandable Casing Systems, AADE Paper 01-NC-HO-24, American Association Of Drilling Engineers, March 2001 Conference, pp. 1-16
	C50	McSpadden, et al., "Field Validation Of 3-Dimensional Drag Model For Tractor And Cable-Conveyed Well Intervention," SPE Paper 71560, SPE Annual Technical Confernece And Exhibition, September 30 – October 3, 2001, pp. 1-8
	C51	Coats, et al., "The Hybrid Drilling Unite: An Overview Of an Integrated Composite Coiled Tubing And Hydraulic Workover Drilling System," SPE Paper 74349, SPE International Petroleum Conference And Exhibition, February 10-12, 2002, pp. 1-7
	C52	Sander, et al., "Project Management And Technology Provide Enhanced Performance For Shallow Horizontal Wells," IADC/SPE Paper 74466, IADC/SPE Drilling Conference, February 26-28, 2002, pp. 1-9
	C53	Coats, et al., "The Hybrid Drilling System: Incorporating Composite Coiled Tubing And Hydraulic Workover Technologies Into One Integrated Drilling System, " IADC/SPE Paper 74538, IADC/SPE Drilling Conference, February 26-28, 2002, pp 1-7
	C54	Editor, "New Downhole Tractor Put To Work," World Oil, June 2000, pp. 75-76
	C55	Henderson, et al., "Cost Saving Benefits Of Using A Fully Bi-Directional Tractor System," SPE/Petroleum Society Of CIM Paper 65467, SPE/Petroleum Society Of CIM International Conference On Horizontal Well Technology, November 6-8, 2000, pp. 1-3
	C56	Editor, "Shell Runs Smart Robot Tractor," Hart's E & P, October 2002, p. 28
	C57	Galloway, "Rotary Drilling With Casing – A Field Proven Method Of Reducing Wellbore Construction Cost," Paper WOCD-0306092, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-7
	C58	Evans, et al., "Development And Testing Of An Economical Casing Connection For Use In Drilling Operations," paper WOCD-0306-03, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-10

Examiner	Date Considered 10/16/08

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Examiner Unknown	10/02/2003	3672

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C59	Fontenot, et al., "New Rig Design Enhances Casing Drilling Operations In Lobo Trend," paper WOCD-0306-04, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-13
	C60	McKay, et al., "New Developments In The Technology Of Drilling With Casing: Utilizing A Displaceable DrillShoe Tool," Paper WOCD-0306-05, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-11
	C61	Sutriono – Santos, et al., "Drilling With Casing Advances To Floating Drilling Unit With Surface BOP Employed," Paper WOCD-0307-01, World Oil Casing Drilling Technical Conferece, March 6-7, 2003, pp. 1-7
	C62	Vincent, et al., "Liner And Casing Drilling – Case Histories And Technology," Paper WOCD-0307-02, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-20
	C63	Maute, "Electrical Logging: State-of-the Art," The Log Analyst, May-June 1992, pp. 206-27
	C64	Tessari, et al., "Retrievable Tools Provide Flexibility for Casing Drilling," Paper No. WOCD-0306-01, World Oil Casing Drilling Technical Conference, 2003, pp. 1-11

Examiner	Date Considered 08/16/05

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-6742606 B2	06/01/2004	Melcalfe, et al.	
	A2	US-6702040 B1	03/09/2004	Sensenig	
	A3	US-6547017 B1	04/15/2003	Vail,III	
	A4	US-6543552 B1	04/08/2003	Melcalfe, et al.	
	A5	US-6536993 B2	03/25/2003	Strong, et al.	
	A6	US-6457532 B1	10/01/2002	Simpson	
	A7	US-6405804 B2	06/18/2002	Ohmer, et al.	
	A8	US-6318466 B1	11/20/2001	Ohmer, et al.	
	A9	US-6318457 B1	11/20/2001	Den Boer, et al.	
	A10	US-6273190 B1	08/14/2001	Sawyer	
	A11	US-6263987 B1	07/24/2001	Vail,III	
	A12	US-6216533 B1	04/17/2001	Woloson, et al.	
	A13	US-6189616 B1	02/20/2001	Gano, et al.	
	A14	US-6186233 B1	02/13/2001	Brunet	
	A15	US-6155360	12/05/2000	McLeod	
	A16	US-6135208	10/24/2000	Gano, et al.	
	A17	US-6098717	08/08/2000	Bailey et al.	
	A18	US-6070671	06/06/2000	Cumming et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B1	DE 3 213 464	10/13/1983	Reimer		
	B2	DE 4 133 802	10/22/1992	Andrejewski		
	B3	EP 0 235 105	09/02/1987	Kjell-Oue		
	B4	EP 0 265 344	04/27/1988	Legendre		
	B5	EP 0 462 618	12/27/1991	Karlsson		

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First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
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	A19	US-6035953	03/14/2000	Rear	
	A20	US-6029748	02/29/2000	Forsyth et al.	
	A21	US-6024169	02/15/2000	Haugen	
	A22	US-6024168	02/15/2000	Kuck, et al.	
	A23	US-6021850	02/08/2000	Wood et al.	
	A24	US-5979571	11/09/1999	Scott et al.	
	A25	US-5960895	10/05/1999	Chevallier et al.	
	A26	US-5924745	07/20/1999	Campbell	
	A27	US-5901789	05/11/1999	Donnelly et al.	
	A28	US-5901787	05/11/1999	Boyle	
	A29	US-5887668	03/30/1999	Haugen et al.	
	A30	US-5887655	03/30/1999	Haugen, et al.	
	A31	US-5836409	11/17/1998	Vail,III	
	A32	US-5826651	10/27/1998	Lee, et al.	
	A33	US-5803666	09/08/1998	Keller	
	A34	US-5787978	08/04/1998	Carter, et al.	
	A35	US-5785132	07/28/1998	Richardson, et al.	
	A36	US-5785120	07/28/1998	Smalley et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B6	EP 0 554 568	08/11/1993	Tibbits, et al.		
	B7	EP 0 952 305	04/23/1998	Lohbeck		
	B8	EP 0 961 007	12/06/1999	Gano, et al.		
	B9	EP 1 006 260	06/07/2000	Fincher, et al.		
	B10	GB 2 335 217	09/15/1999	Desai		

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

U.S. PATENT DOCUMENTS

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	A37	US-5727629	03/17/1998	Blizzard, Jr., et al.	
	A38	US-5725060	03/10/1998	Blount, et al.	
	A39	US-5717334	02/10/1998	Vail,III, et al.	
	A40	US-5706905	01/13/1998	Barr	
	A41	US-5685369	11/11/1997	Ellis et al.	
	A42	US-5636661	06/10/1997	Moyes	
	A43	US-5615747	04/01/1997	Vail,III	
	A44	US-5575344	11/19/1996	Wireman	
	A45	US-5560426	10/01/1996	Trahan et al.	
	A46	US-5553679	09/10/1996	Thorp	
	A47	US-5526880	06/18/1996	Jordan, Jr., et al.	
	A48	US-5520255	05/28/1996	Barr et al.	
	A49	US-5484021	01/16/1996	Hailey	
	A50	US-5477925	12/26/1995	Trahan, et al.	
	A51	US-5458209	10/17/1995	Hayes, et al.	
	A52	US-5435400	07/25/1995	Smith	
	A53	US-5409059	04/25/1995	McHardy	
	A54	US-5402856	04/04/1995	Warren, et al.	

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	B11	GB 1 469 661	04/06/1977	Swobda, et al.		
	B12	GB 1 277 461	06/03/1972			
	B13	GB 1 448 304	09/02/1976			
	B14	GB 1 457 843	12/08/1976			
	B15	GB 1 582 392	01/07/1981			

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Sheet 4 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
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	A55	US-5366012	11/22/1994	Lohbeck	
	A56	US-5361859	11/08/1994	Tibbitts	
	A57	US-5348095	09/20/1994	Worrall et al.	
	A58	US-5322127	06/21/1991	McNair et al.	
	A59	US-5318122	06/07/1994	Murray, et al.	
	A60	US-5307879	05/03/1994	Kent	
	A61	US-5301760	04/12/1994	Graham	
	A62	US-5271427	12/21/1993	Berchem	
	A63	US-5267613	12/07/1993	Zwart et al.	
	A64	US-5156209	10/20/1992	McHardy	
	A65	US-5109924	05/05/1992	Jurgens, et al.	
	A66	US-5052849	10/01/1991	Zwart	
	A67	US-5052483	10/01/1991	Hudson	
	A68	US-5014779	05/14/1991	Meling et al.	
	A69	US-4997320	03/05/1991	Hwang	
	A70	US-4976322	12/11/1990	Abdrakhmanov et al.	
	A71	US-4904119	02/27/1990	Legendre, et al.	
	A72	US-4883121	11/28/1989	Zwart	

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	B16	GB 2 053 088	02/04/1981	Gebhart		
	B17	GB 2 201 912	09/14/1988	Dinsdale		
	B18	GB 2 313 860	02/10/1997	Lee		
	B19	GB 2 320 270	06/17/1998	Armell, et al.		
	B20	GB 2 320 734	07/01/1998	Coronado, et al.		
	B21	GB 2 333 542	07/28/1999	Kirk		

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Sheet 5 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

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	A73	US-4866966	09/19/1989	Hagan	
	A74	US-4848469	07/18/1989	Baugh et al.	
	A75	US-4836299	06/06/1989	Bodine	
	A76	US-4807704	02/28/1989	Hsu et al.	
	A77	US-4750559	06/14/1988	Greenlee et al.	
	A78	US-4699224	10/13/1987	Burton	
	A79	US-4697640	10/06/1987	Szarka	
	A80	US-4686873	08/18/1987	Lang, et al.	
	A81	US-4681158	07/21/1987	Pennison	
	A82	US-4626129	12/02/1986	Kothmann et al.	
	A83	US-4620600	11/04/1986	Persson	
	A84	US-4604818	08/12/1996	Inoue	
	A85	US-4588030	05/13/1986	Blizzard	
	A86	US-4581617	04/08/1986	Yoshimoto et al.	
	A87	US-4567631	02/04/1986	Kelly	
	A88	US-4531581	07/30/1985	Pringle et al.	
	A89	US-4515045	05/07/1985	Gnatchenko, et al.	
	A90	US-4505612	03/19/1985	Shelley, Jr.	

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	B22	GB 2 365 463	02/20/2002	Giancarlo		
	B23	GB 2 382 361	05/28/2003	Hewson, et al.		
	B24	GB 2 216 926	10/18/1989	Haloid		
	B25	GB 2 329 918	04/07/1999	Wood, et al.		
	B26	GB 2 348 223	09/27/2000	Cook, et al.		

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Sheet 6 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
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	A91	US-4505142	03/19/1985	Kelly	
	A92	US-4502308	03/05/1985	Kelly	
	A93	US-4487630	12/11/1984	Crook et al.	
	A94	US-4483399	11/20/1984	Colgate	
	A95	US-4470280	09/11/1984	Kelly	
	A96	US-4450612	05/29/1984	Kelly	
	A97	US-4446745	05/08/1994	Stone, et al.	
	A98	US-4445201	04/24/1984	Pricer	
	A99	US-4429620	02/07/1984	Burkhardt et al.	
	A100	US-4414739	11/15/1983	Kelly	
	A101	US-4407150	10/04/1983	Kelly	
	A102	US-4396076	08/02/1983	Inoue	
	A103	US-4396077	09/12/1981	Radtke	
	A104	US-4387502	06/14/1983	Dorn	
	A105	US-4382379	05/10/1983	Kelly	
	A106	US-4362324	12/07/1982	Kelly	
	A107	US-4359889	11/23/1982	Kelly	
	A108	US-4349050	09/14/1982	Bergstrom et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B27	GB 540 027	10/02/1941			
	B28	GB 7 303 38	03/18/1955	Hopkins		
	B29	GB 7 928 86	04/12/1958			
	B30	GB 8 388 33	06/22/1960			
	B31	GB 9 977 21	07/07/1965	Garnier, et al.		

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Sheet 7 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

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	A109	US-4324407	04/13/1982	Upham et al.	
	A110	US-4319393	03/16/1982	Pogonowski	
	A111	US-4288082	09/08/1982	Setterberg, Jr.	
	A112	US-4274778	06/23/1981	Putnam, et al.	
	A113	US-4221269	09/09/1980	Hudson	
	A114	US-4189185	02/19/1980	Kammerer, Jr., et al.	
	A115	US-4186628	02/05/1990	Bonnice	
	A116	US-4159564	07/03/1979	Cooper, Jr.	
	A117	US-4127168	11/28/1978	Hanson et al.	
	A118	US-4100981	07/18/1978	Chaffin	
	A119	US-4083405	04/11/1978	Shirley	
	A120	US-4069573	01/24/1978	Rogers, Jr. et al.	
	A121	US-3977076	08/31/1976	Vieira et al.	
	A122	US-3948321	04/06/1976	Owen et al.	
	A123	US-3934660	01/27/1976	Nelson	
	A124	US-3911707	10/14/1975	Minakov et al.	
	A125	US-3901331	08/26/1975	Djurovic	
	A126	US-3820370	06/28/1974	Duffy	

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	B32	USSR 112631	01/10/1956	Barshai, et al.		
	B33	USSR 1304470	08/31/1984	Gelfat, et al.		
	B34	USSR 1808972	05/22/1991	Voroshbitov, et al.		
	B35	USSR 247162	05/10/1967	Barshai, et al.		
	B36	USSR 395557	12/30/1971	Barshai, et al.		

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	A127	US-3818734	06/25/1974	Bateman	
	A128	US-3785193	01/15/1974	Kinley et al.	
	A129	US-3780562	12/25/1973	Kinley	
	A130	US-3776307	12/04/1973	Young	
	A131	US-3746091	07/17/1973	Owen et al.	
	A132	US-3712376	01/23/1973	Owen et al.	
	A133	US-3700048	10/24/1972	Desmoulins	
	A134	US-3691624	09/19/1972	Kinley	
	A135	US-3689113	09/05/1972	Blaschke	
	A136	US-3669190	06/13/1972	Sizer et al.	
	A137	US-3624760	11/30/1971	Bodine	
	A138	US-3583200	06/08/1971	Cvijanovic et al.	
	A139	US-3575245	04/20/1971	Cordary, et al.	
	A140	US-3489220	01/13/1970	Kinley	
	A141	US-3477506	11/11/1969	Malone	
	A142	US-3467180	09/16/1969	Pensotti	
	A143	US-3387893	06/11/1968	Hoever	
	A144	US-3354955	11/28/1967	Berry	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B37	USSR 415346	03/03/1972	Barshai, et al.		
	B38	USSR 461218	04/23/1973	Barshai, et al.		
	B39	USSR 481689	06/09/1972	Barshai, et al.		
	B40	USSR 501139	12/14/1973	Barshai, et al.		
	B41	USSR 581238	02/23/1976	Barshai, et al.		

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 9 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

U.S. PATENT DOCUMENTS

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	A145	US-3353599	11/21/1967	Swift	
	A146	US-3326293	06/20/1967	Skipper	
	A147	US-3297092	01/10/1967	Jennings	
	A148	US-3245471	04/12/1966	Howard	
	A149	US-3203483	08/31/1965	Vincent	
	A150	US-3203451	08/31/1965	Vincent	
	A151	US-3195646	07/20/1965	Brown	
	A152	US-3191680	06/29/1965	Vincent	
	A153	US-3191677	06/29/1965	Kinley	
	A154	US-3186485	06/01/1965	Owen	
	A155	US-3179168	06/29/1965	Vincent	
	A156	US-3169592	02/26/1965	Kammerer	
	A157	US-3167122	01/26/1965	Lang	
	A158	US-3102599	09/03/1963	Hillburn	
	A159	US-3087546	04/30/1963	Wooley	
	A160	US-3039530	08/19/1962	Condra	
	A161	US-3028915	04/10/1962	Jennings	
	A162	US-2898971	08/11/1959	Hempel	

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	B42	USSR 583278	08/30/1974	Barshai, et al.		
	B43	USSR 585266	07/26/1974	Barshai, et al.		
	B44	USSR 601390	01/12/1976	Barshai, et al.		
	B45	USSR 655843	03/22/1977	Barshai, et al.		
	B46	USSR 695260	04/02/1967	Barshai		

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Sheet 10 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

U.S. PATENT DOCUMENTS

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	A163	US-2805043	09/03/1957		
	A164	US-2797893	07/02/1957	McCune, et al.	
	A165	US-2765146	10/02/1956		
	A166	US-2764329	09/25/1956	Hampton	
	A167	US-2743087	04/24/1956	Layne, et al.	
	A168	US-2663073	12/22/1953	Bieber et al.	
	A169	US-2641444	06/09/1953	Moon	
	A170	US-2633374	03/31/1953	Boice	
	A171	US-2627891	02/10/1953	Clark	
	A172	US-2519116	08/15/1950	Crake	
	A173	US-2499630	03/07/1950	Clark	
	A174	US-2424878	07/29/1947	Crook	
	A175	US-2383214	08/21/1945	Prout et al.	
	A176	US-2324679	07/20/1943	Nellie	
	A177	US-2216895	10/08/1940	Stokes	
	A178	US-2216226	10/01/1940	Bumpous	
	A179	US-2214226	09/10/1940	English	
	A180	US-2060352	11/11/1936	Stokes	

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	B47	USSR 781312	03/07/1978	Barshai, et al.		
	B48	USSR 899820	06/29/1979	Alikin, et al.		
	B49	USSR 955765	02/09/1981	Gelfat, et al.		
	B50	WO 00/37766	06/29/2000	Simpson, et al.		
	B51	WO 01/83932	11/08/2001	Tulloch		

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Sheet 11 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
Submission Date	July 6, 2004

U.S. PATENT DOCUMENTS

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	A181	US-2049450	08/04/1936	Johnson	
	A182	US-2017451	10/15/1935	Wickersham	
	A183	US-1981525	11/20/1934	Price	
	A184	US-1981525	11/20/1934	Price	
	A185	US-1930825	10/17/1933	Raymond.	
	A186	US-1880218	10/04/1932	Simmons.	
	A187	US-1597212	08/24/1926	Spengler.	
	A188	US-1569729	01/12/1926	Duda.	
	A189	US-1561418	11/10/1925	Duda.	
	A190	US-1545039	07/07/1925	Deavers.	
	A191	US-1342424	06/08/1920	Cotten	
	A192	US-1324303	12/09/1919	Carmichael.	
	A193	US-1301285	04/22/1919	Leonard.	
	A194	US-988504	04/04/1911	Wiet.	
	A195	US-761518	05/11/1904	Lykken.	
	A196	US-2004/0069501	04/15/2004	Haugen et al.	
	A197	US-2003/0217865	11/27/2003	Simpson, et al.	
	A198	US-2003/0146023	08/07/2003	Pia	

FOREIGN PATENT DOCUMENTS

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	B52	WO 90/06418	06/14/1990	Schulze-Bechinghausen		
	B53	WO 92/01139	01/23/1992	Noblequ		
	B54	WO 92/18743	10/29/1992	Pietras		
	B55	WO 92/20899	11/26/1992	Ellis		
	B56	WO 93/24728	12/09/1993	Simpson		

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Sheet 12 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
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	A199	US-2003/0141111	07/31/2004	Pia	
	A200	US-2003/0111267	06/19/2003	Pia	
	A201	US-2003/0056991	03/27/2003	Hahn, et al.	
	A202	US-2002/0079102	06/27/2002	Dewey, et al.	
	A203	US-2002/0040787	4/11/2002	Cook, et al.	
	A204	US-2001/0002626	6/7/2001	Frank, et al.	

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	B57	WO 93/25800	12/23/1993	Luhbech		
	B58	WO 94/25655	11/10/1994	Bertet, et al.		
	B59	WO 95/10686	04/20/1995	Lorenz, et al.		
	B60	WO 96/28635	09/19/1996	Strong, et al.		
	B61	WO 97/21901	06/19/1997	Campbell, et al.		
	B62	WO 98/00626	01/08/1998	Donnelly, et al.		
	B63	WO 98/09053	03/05/1998	Murray, et al.		
	B64	WO 99/18328	04/15/1999	Bailey, et al.		
	B65	WO 99/23354	05/14/1999	Metcalfe		
	B66	WO 99/37881	07/29/1999	Kirk, et al.		
	B67	WO 99/50528	10/07/1999	Kuck, et al.		
	B68	WO 99/64713	12/16/1999	Wardley		
	B69	WO 99/02818	01/21/1999	Metcalfe		
	B70	WO 99/11902	03/11/1999	Hollingsworth		
	B71	FR 2053088	07/20/1970	Gottwald		
	B72					
	B73					
	B74					
	B75					
	B76					
	B77					
	B78					

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Sheet 13 of 14

Application Number	10/678,731
Filing Date	October 2, 2003
First Named Inventor	Vail III
Group Art Unit	3672
Examiner Name	Tsay, F.
Attorney Docket Number	WEAT/0525
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NON PATENT LITERATURE DOCUMENTS

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	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development, " Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orlean, LA Feb. 23-25, 2000 pp. 1-9.	
	C2	PCT International Search Report PCT/GB 03/01103, dated July 14, 2003	
	C3	U.K. Search Report GB 0329523.5, dated February 25, 2004	
	C4	U.K. Search Report GB 0328864.4, dated May 12, 2004	
	C5	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Driling are Options" Drilling Contractor, January/February 2002, pp. 52.	
	C6	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.	
	C7	"First Success with Casing-Drilling" Word Oil, February (1999), pp. 25.	
	C8	DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.	
	C9	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)	
	C10	United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1)	
	C11	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)	
	C12	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)	

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Sheet 14 of 14

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First Named Inventor	Vail III
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	C13	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)	
	C14	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)	
	C15	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)	
	C16	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)	
	C17	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)	
	C18	United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366)	
	C19	United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329)	
	C20	United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410)	
	C21		
	C22		
	C23		
	C24		

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